

September 28, 2001

PRELIMINARY AMENDMENT  
Patent Application  
Docket No. GJE-78

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Daniel Henry Densham  
Docket No. : GJE-78  
For : Polynucleotide Sequencing Using a Helicase

7/11  
PreAmndt  
CD  
8/20/02

Box PCT  
Assistant Commissioner for Patents  
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

It is respectfully requested that the above-identified patent application be amended as follows:

In the Specification

After page 9: Please insert as new page 10, the attached Abstract of the Disclosure.

In the Claims

Please cancel claims 1-6, without prejudice.

Please add the following new claims 7-21:

7. A method for sequencing a polynucleotide, comprising the steps of:

- (i) reacting a target polynucleotide with a helicase enzyme or a primase enzyme, under conditions suitable for enzyme activity; and
- (ii) detecting the interaction between the enzyme and a nucleotide on the target polynucleotide, by measuring radiation.

8. The method, according to claim 7, wherein the radiation is electromagnetic.